

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS
 ACCESSION NUMBER: 1998:682302 CAPLUS
 DOCUMENT NUMBER: 129:285991
 TITLE: Use of **lactoferrin** in the treatment of
allergen-induced disorders
 INVENTOR(S): Kimber, Ian; Cumberbatch, Marie; Dearman, Rebecca J.;
 Conneely, Orla M.; Ward, Pauline
 PATENT ASSIGNEE(S): Agennix, Inc., USA
 SOURCE: PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 INT. PATENT CLASSIF.:
 MAIN: A61K038-40
 CLASSIFICATION: 1-7 (Pharmacology)
 Section cross-reference(s): 62, 63
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9844940	A1	19981015	WO 1998-US7234	19980410
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9869647	A1	19981030	AU 1998-69647	19980410
EP 979099	A1	20000216	EP 1998-915471	19980410
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
PRIORITY APPLN. INFO.:			US 1997-41890	19970410
			WO 1998-US7234	19980410

ABSTRACT:
 The present invention relates to pharmaceutical compns. and methods using
 lactoferrin for treating allergic disorders characterized by a local
 immune response including **inflammatory** skin reactions, asthma, and
 arthritis.

SUPPL. TERM: **lactoferrin** allergen disorder immune response;
 skin **inflammation** asthma arthritis
lactoferrin
 INDEX TERM: Cell migration
 (Langerhans' cell; **lactoferrin** in the treatment
 of **allergen-induced** disorders)
 INDEX TERM: UV radiation
 (UV-induced **inflammation**; **lactoferrin**
 in the treatment of **allergen-induced**
 disorders)
 INDEX TERM: Face
 (facial skin aging; **lactoferrin** in the
 treatment of **allergen-induced**
 disorders)
 INDEX TERM: Skin aging

(facial; lactoferrin in the treatment of
allergen-induced disorders)

INDEX TERM: Diapers

Infant
(infant diaper rash; lactoferrin in the
treatment of allergen-induced
disorders)

INDEX TERM: Allergy inhibitors

Anti-inflammatory drugs

Antiarthritis

Antiasthmatics

Bronchitis

Contact dermatitis

Cosmetics

Dendritic cell

Dermatitis

Drug delivery systems

Keratinocyte

Langerhans' cell

Photoprotectants

Psoriasis

Pulmonary inflammation

Rhinitis

Wrinkle-preventing cosmetics
(lactoferrin in the treatment of
allergen-induced disorders)

INDEX TERM: Hydroxy carboxylic acids

ROLE: ADV (Adverse effect, including toxicity); BUU
(Biological use, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(lactoferrin in the treatment of
allergen-induced disorders)

INDEX TERM: Interleukin 1.beta.

ROLE: BAC (Biological activity or effector, except
adverse);

BPR (Biological process); BIOL (Biological study); PROC
(Process)
(lactoferrin in the treatment of
allergen-induced disorders)

INDEX TERM: Lactoferrins

ROLE: BAC (Biological activity or effector, except
adverse);

THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(lactoferrin in the treatment of
allergen-induced disorders)

INDEX TERM: Lactoferrin receptors

Tumor necrosis factor .alpha.

ROLE: BPR (Biological process); BIOL (Biological study);
PROC (Process)
(lactoferrin in the treatment of
allergen-induced disorders)

INDEX TERM: Skin diseases

(rash, infant diaper rash; lactoferrin in the
treatment of allergen-induced
disorders)

INDEX TERM: Respiratory tract diseases

(sinusitis; lactoferrin in the treatment of
allergen-induced disorders)

INDEX TERM: 302-79-4, Tretinoïn

ROLE: ADV (Adverse effect, including toxicity); BUU
(Biological use, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(lactoferrin in the treatment of
allergen-induced disorders)

=> s interleukin-1?

<-----User Break----->

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SEARCH ENDED BY USER

=> s 15 and 17

L10 119 L5 AND L7

=> s lactoferrin? (w) interleukin?

L11 15 LACTOFERRIN? (W) INTERLEUKIN?

=> s lactoferrin? (s) interleukin?

L12 247 LACTOFERRIN? (S) INTERLEUKIN?

=> s 112 and 17

L13 74 L12 AND L7

=> L13 and allerg?

L13 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>).

=> s L13 and allerg?

L14 7 L13 AND ALLERG?

=> d iall 1-7

L14 ANSWER 1 OF 7 MEDLINE

ACCESSION NUMBER: 1998339538 MEDLINE

DOCUMENT NUMBER: 98339538

TITLE: Comparison of **inflammatory** events during developing immunoglobulin E-mediated late-phase reactions and delayed-hypersensitivity reactions.

AUTHOR: Zweiman B; Moskovitz A R; von Allmen C

CORPORATE SOURCE: Department of Medicine, University of Pennsylvania Medical Center, Philadelphia, USA.

CONTRACT NUMBER: R01 AI 14332 (NIAID)

SOURCE: CLINICAL AND DIAGNOSTIC LABORATORY IMMUNOLOGY, (1998 Jul)
5

(4) 574-7.

Journal code: CB7. ISSN: 1071-412X.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199812

ENTRY WEEK: 19981203

ABSTRACT:

To compare cellular and mediator responses in early developing late-phase skin reactions (LPR) and delayed-hypersensitivity (DH) reactions in the same subjects, responses in skin chambers overlying sites of challenge with pollen antigen and Candida albicans antigens were compared in six humans with demonstrated prominent LPR and DH responses. Histamine levels in overlying chamber fluids at 1 h were much higher at LPR than at DH sites ($P = 0.002$).

After the next 4 h, leukocyte exudation was higher at LPR than at DH sites ($P = 0.005$). Most leukocytes were activated neutrophils with greater frequency of superoxide-secreting cells and released lactoferrin at LPR than at DH sites ($P = 0.01$ and $P = 0.02$, respectively). The frequency of exuding eosinophils was higher, but not significantly so ($P = 0.5$), at LPR sites. Although significantly more eosinophils at LPR sites were activated ($P = 0.02$), the levels of released eosinophilic cationic protein were not significantly higher at LPR sites ($P = 0.09$). The levels of interleukin-8 (IL-8), but not IL-6, were greater at LPR than at DH sites. During the first 5 h of challenge there was greater mast cell activation and subsequent exudation of activated neutrophils at sites of developing LPR than at DH sites, possibly related to greater local IL-8 levels. The frequency of activated eosinophils was also greater at LPR sites. These different initial inflammatory responses could play a role in determining expression of LPR or DH reactions.

CONTROLLED TERM: Check Tags: Comparative Study; Human; Support, U.S. Gov't, P.H.S.

Allergens

Candida albicans: IM, immunology

Cytokines: ME, metabolism

Dermatitis, Allergic Contact: ET, etiology

Dermatitis, Allergic Contact: IM, immunology

Diffusion Chambers, Culture

Hay Fever: IM, immunology

Histamine: ME, metabolism

*Hypersensitivity, Delayed: ET, etiology

Hypersensitivity, Delayed: IM, immunology

*IgE: ME, metabolism

***Inflammation:** ET, etiology

Inflammation: IM, immunology

Intradermal Tests

Pollen: IM, immunology

Skin: IM, immunology

Time Factors

CAS REGISTRY NO.: 37341-29-0 (IgE); 51-45-6 (Histamine)

CHEMICAL NAME: 0 (**Allergens**); 0 (Cytokines)

L14 ANSWER 2 OF 7 MEDLINE

ACCESSION NUMBER: 95204853 MEDLINE

DOCUMENT NUMBER: 95204853

TITLE: Products of arachidonic acid metabolism and the effects of cyclooxygenase inhibition on ongoing cutaneous allergic reactions in human beings.

AUTHOR: Atkins P C; Zweiman B; Littman B; Presti C; von Allmen C; Moskovitz A; Eskra J D

CORPORATE SOURCE: Department of Medicine, University of Pennsylvania School of Medicine, Philadelphia 19104-6057..

CONTRACT NUMBER: AI-14332 (NIAID)

SOURCE: JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, (1995 Mar) 95 (3) 742-7.

Journal code: H53. ISSN: 0091-6749.

PUB. COUNTRY: United States

DOCUMENT TYPE: (CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199506

ABSTRACT:

BACKGROUND: There have been conflicting reports about the effects of inhibition of arachidonic acid metabolism on early- and late-phase cutaneous reactions. We

re-examined this question with a unique nonsteroidal antiinflammatory drug, tenidap sodium. Tenidap sodium has been demonstrated in in vitro studies to inhibit cyclooxygenase, lipoxygenase, and cytokine production (***interleukin*** -1, interleukin-6, tumor necrosis factor-alpha).

METHODS: In a double-blind, randomized, crossover study, seven pollen-sensitive

subjects ingested tenidap (120 mg, by mouth, daily) and placebo for 9 days with

a 3-week washout period between treatments. On the eighth day they underwent ***allergen*** skin testing, measurable for up to 12 hours, and on the ninth day they underwent 5-hour skin chamber exposures to **allergen** and buffer. Chamber fluids were analyzed for cellular content, neutrophil granule protein release, cyclooxygenase and lipoxygenase arachidonic acid metabolites, histamine, and tryptase. RESULTS: Tenidap did significantly inhibit cyclooxygenase metabolites at both antigen and buffer sites but had no effect on histamine, tryptase, lipoxygenase metabolites, or granulocyte infiltration. Neutrophil granule release of **lactoferrin** was lower at the antigen site during tenidap administration, but there was no reduction of elastase release. Prostaglandin E2 and leukotriene E4 increased significantly at antigen

sites compared with buffer sites during placebo administration and were the most prominent arachidonic acid metabolites detected. CONCLUSION: Tenidap, despite inhibiting cyclooxygenase release at antigen sites, had no effect on skin test responses to antigen or on antigen-induced mediator release or granulocyte infiltration. We conclude that cyclooxygenase metabolites are not important in the development of an **allergic** cutaneous ***inflammatory*** response.

CONTROLLED TERM: Check Tags: Human; Male; Support, U.S. Gov't, P.H.S.
*Anti-Inflammatory Agents, Non-Steroidal: PD,
pharmacology
*Arachidonic Acid: ME, metabolism
Cross-Over Studies
*Cyclooxygenase Inhibitors: PD, pharmacology
Dermatitis, Allergic Contact: IM, immunology
Dermatitis, Allergic Contact: ME, metabolism
*Dermatitis, Allergic Contact: PC, prevention &
control
Double-Blind Method
*Indoles: PD, pharmacology
Skin Tests

CAS REGISTRY NO.: 120210-48-2 (tenidap); 506-32-1 (Arachidonic Acid)

CHEMICAL NAME: 0 (Anti-Inflammatory Agents, Non-Steroidal); 0 (Cyclooxygenase Inhibitors); 0 (Indoles)

L14 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1998:682302 CAPLUS

DOCUMENT NUMBER: 129:285991

TITLE: Use of lactoferrin in the treatment of
allergen-induced disorders

INVENTOR(S): Kimber, Ian; Cumberbatch, Marie; Dearman, Rebecca J.;
Conneely, Orla M.; Ward, Pauline

PATENT ASSIGNEE(S): Agennix, Inc., USA

SOURCE: PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

INT. PATENT CLASSIF.:

MAIN: A61K038-40

CLASSIFICATION: 1-7 (Pharmacology)

Section cross-reference(s): 62, 63

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

WO 9844940	A1	19981015	WO 1998-US7234	19980410
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9869647	A1	19981030	AU 1998-69647	19980410
EP 979099	A1	20000216	EP 1998-915471	19980410
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
PRIORITY APPLN. INFO.:			US 1997-41890	19970410
			WO 1998-US7234	19980410

ABSTRACT:

The present invention relates to pharmaceutical compns. and methods using lactoferrin for treating **allergic** disorders characterized by a local immune response including **inflammatory** skin reactions, asthma, and arthritis.

SUPPL. TERM:	lactoferrin allergen disorder immune response; skin inflammation asthma arthritis lactoferrin
INDEX TERM:	Cell migration (Langerhans' cell; lactoferrin in the treatment of allergen -induced disorders)
INDEX TERM:	UV radiation (UV-induced inflammation ; lactoferrin in the treatment of allergen -induced disorders)
INDEX TERM:	Face (facial skin aging; lactoferrin in the treatment of allergen -induced disorders)
INDEX TERM:	Skin aging (facial; lactoferrin in the treatment of allergen -induced disorders)
INDEX TERM:	Diapers Infant (infant diaper rash; lactoferrin in the treatment of allergen -induced disorders)
INDEX TERM:	Allergy inhibitors Anti-inflammatory drugs Antiarthritics Antiasthmatics Bronchitis Contact dermatitis Cosmetics Dendritic cell Dermatitis Drug delivery systems Keratinocyte Langerhans' cell Photoprotectants Psoriasis Pulmonary inflammation Rhinitis Wrinkle-preventing cosmetics (lactoferrin in the treatment of allergen -induced disorders)
INDEX TERM:	Hydroxy carboxylic acids ROLE: ADV (Adverse effect, including toxicity); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (lactoferrin in the treatment of allergen -induced disorders)

INDEX TERM: **Interleukin 1.beta.**
ROLE: BAC (Biological activity or effector, except
adverse);
BPR (Biological process); BIOL (Biological study); PROC
(Process)
 (**lactoferrin** in the treatment of
 allergen-induced disorders)

INDEX TERM: **Lactoferrins**
ROLE: BAC (Biological activity or effector, except
adverse);
THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (**lactoferrin** in the treatment of **allergen**
 -induced disorders)

INDEX TERM: **Lactoferrin receptors**
Tumor necrosis factor .alpha.
ROLE: BPR (Biological process); BIOL (Biological study);
PROC (Process)
 (**lactoferrin** in the treatment of **allergen**
 -induced disorders)

INDEX TERM: **Skin diseases**
 (rash, infant diaper rash; **lactoferrin** in the treatment
 of **allergen**-induced disorders)

INDEX TERM: **Respiratory tract diseases**
 (sinusitis; **lactoferrin** in the treatment of
 allergen-induced disorders)

INDEX TERM: 302-79-4, **Tretinoin**
ROLE: ADV (Adverse effect, including toxicity); BUU
(Biological use, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
 (**lactoferrin** in the treatment of **allergen**
 -induced disorders)

L14 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1995:359728 CAPLUS
DOCUMENT NUMBER: 122:130898
TITLE: Lactoferrin inhibits the effector phase of the
delayed type hypersensitivity to sheep erythrocytes and
AUTHOR(S): Zimecki, Michal; Machnicki, Michal
CORPORATE SOURCE: Institute Immunology and Experimental Therapy, Polish
Academy Sciences, Wroclaw, 53-114, Pol.
SOURCE: Arch. Immunol. Ther. Exp. (1994), 42(3), 171-7
CODEN: AITEAT; ISSN: 0004-069X
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 15-9 (Immunochemistry)
ABSTRACT:
Bovine lactoferrin (BLF) given to mice, sensitized to SRBC, together with the eliciting dose of antigen, inhibits very strongly the DTH reaction measured after 24 h by foot pad swelling. Administration of BLF at 48 or 24 h before eliciting the DTH reaction was not effective, however, BLF suppressed the reaction when given at the peak of the **inflammatory** process. The effects of BLF were strongest when the protein was injected i.v. I.p. or i.m. administrations of BLF were less inhibitory. In addn., BLF diminishes, although to a much lesser degree, the **inflammatory** reactions induced by BCG. The inhibitory action of BLF does not involve liver since treatment of mice with galactosamine does not reverse the inhibition. Studies on cytokine prodn. revealed that peritoneal macrophages, derived from mice pretreated with LF, have an increased ability to produce in vitro IL-6 after induction with LPS. In addn., we demonstrated that inhibition of macrophage migration, mediated by migration inhibition factor, is abolished by BLF. Lastly, the inhibitory effect of BLF could not be transferred with serum from donors treated with BLF. In summary, the data reveal the inhibitory properties of LF,

administered systematically, in relation to locally induced
inflammation .

SUPPL. TERM: **lactoferrin delayed type hypersensitivity erythrocyte;**
 inflammation Mycobacterium macrophage
 interleukin lactoferrin

INDEX TERM: **Erythrocyte**
 Inflammation
 Mycobacterium BCG
 (lactoferrin inhibits the effector phase of the delayed
 type hypersensitivity to sheep erythrocytes and
 inflammatory reactions to M. bovis (BCG))

INDEX TERM: **Lactoferrins**
 ROLE: BAC (Biological activity or effector, except
adverse);
 BIOL (Biological study)
 (lactoferrin inhibits the effector phase of the delayed
 type hypersensitivity to sheep erythrocytes and
 inflammatory reactions to M. bovis (BCG))

INDEX TERM: **Macrophage**
 (macrophages pretreated with lactoferrin have increased
 ability to produce IL-6 after induction with LPS)

INDEX TERM: **Lipopolysaccharides**
 ROLE: BAC (Biological activity or effector, except
adverse);
 BIOL (Biological study)
 (macrophages pretreated with lactoferrin have increased
 ability to produce IL-6 after induction with LPS)

INDEX TERM: **Allergy**
 (delayed hypersensitivity, lactoferrin inhibits the
 effector phase of the delayed type hypersensitivity to
 sheep erythrocytes and **inflammatory reactions**
 to M. bovis (BCG))

INDEX TERM: **Lymphokines and Cytokines**
 ROLE: MFM (Metabolic formation); BIOL (Biological study);
 FORM (Formation, nonpreparative)
 (interleukin 6, macrophages pretreated with
 lactoferrin have increased ability to produce
 IL-6 after induction with LPS)

L14 ANSWER 5 OF 7 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1998:363166 BIOSIS
DOCUMENT NUMBER: PREV199800363166
TITLE: Comparison of **inflammatory** events during
 developing immunoglobulin E-mediated late-phase reactions
 and delayed-hypersensitivity reactions.
AUTHOR(S): Zweiman, Burton (1); Moskovitz, Anne R.; Von Allmen,
 Carolyn
CORPORATE SOURCE: (1) Univ. Pennsylvania Sch. Med., 512 Johnson Pavilion,
 Philadelphia, PA 19104-6057 USA
SOURCE: Clinical and Diagnostic Laboratory Immunology, (July,
 1998)
 Vol. 5, No. 4, pp. 574-577.
 ISSN: 1071-412X.
DOCUMENT TYPE: Article
LANGUAGE: English
ABSTRACT:
To compare cellular and mediator responses in early developing late-phase skin
reactions (LPR) and delayed-hypersensitivity (DH) reactions in the same
subjects, responses in skin chambers overlying sites of challenge with pollen
antigen and Candida albicans antigens were compared in six humans with
demonstrated prominent LPR and DH responses. Histamine levels in overlying
chamber fluids at 1 h were much higher at LPR than at DH sites ($P = 0.002$).
After the next 4 h, leukocyte exudation was higher at LPR than at DH sites (P
=

0.005). Most leukocytes were activated neutrophils with greater frequency of superoxide-secreting cells and released lactoferrin at LPR than at DH sites ($P = 0.01$ and $P = 0.02$, respectively). The frequency of exuding eosinophils was higher, but not significantly so ($P = 0.5$), at LPR sites. Although significantly more eosinophils at LPR sites were activated ($P = 0.02$),

the levels of released eosinophilic cationic protein were not significantly higher at LPR sites ($P = 0.09$). The levels of interleukin-8 (IL-8), but not IL-6, were greater at LPR than at DH sites. During the first 5 h of challenge there was greater mast cell activation and subsequent exudation of activated neutrophils at sites of developing LPR than at DH sites, possibly related to greater local IL-8 levels. The frequency of activated eosinophils was also greater at LPR sites. These different initial inflammatory responses could play a role in determining expression of LPR or DH reactions.

CONCEPT CODE:

Immunology and Immunochemistry - Immunopathology, Tissue
Immunology *34508
Cytology and Cytochemistry - Human *02508
Biochemical Studies - Proteins, Peptides and Amino Acids
*10064
Biophysics - Molecular Properties and Macromolecules
*10506
Pathology, General and Miscellaneous - Inflammation and
Inflammatory Disease *12508
Blood, Blood-Forming Organs and Body Fluids - Lymphatic
Tissue and Reticuloendothelial System *15008
Endocrine System - General *17002
Integumentary System - Pathology *18506
Allergy *35500

BIOSYSTEMATIC CODE: Hominidae 86215

INDEX TERMS: Major Concepts

Clinical Immunology (Human Medicine, Medical Sciences)

INDEX TERMS:

Parts, Structures, & Systems of Organisms
activated neutrophils; eosinophilic cationic protein;
eosinophils: blood and lymphatics, immune system; mast
cells: activation, immune system; superoxide-secreting
cells

INDEX TERMS:

Diseases
delayed-hypersensitivity reaction: immune system disease;
late-phase skin reactions: immune system disease,
integumentary system disease

INDEX TERMS:

Chemicals & Biochemicals
histamine; lactoferrin; pollen antigen: allergen;
Candida-albicans antigen; IL-6 [interleukin-6]; IL-8
[interleukin-8]

INDEX TERMS:

Miscellaneous Descriptors

inflammation

ORGANISM:

Super Taxa

Hominidae: Primates, Mammalia, Vertebrata, Chordata,
Animalia

ORGANISM:

Organism Name

human (Hominidae): patient

ORGANISM:

Organism Superterms

Animals; Chordates; Humans; Mammals; Primates; Vertebrates
51-45-6 (HISTAMINE)

REGISTRY NUMBER:

11062-77-4 (SUPEROXIDE)

L14 ANSWER 6 OF 7 BIOSIS COPYRIGHT 2000 BIOSIS

ACCESSION NUMBER: 1995:201372 BIOSIS

DOCUMENT NUMBER: PREV199598215672

TITLE:

Products of arachidonic acid metabolism and the effects of
cyclooxygenase inhibition on ongoing cutaneous
allergic reactions in human beings.

AUTHOR(S):

Atkins, Paul C. (1); Zweiman, Burton; Littman, Bruce;
Presti, Charles; Von Allmen, Carolyn; Moskovitz, Anne;
Eskra, J. D.

CORPORATE SOURCE: (1) 510 Johnson Pavilion, Univ. Pennsylvania Sch. Med.,
Philadelphia, PA 19104-6057 USA
SOURCE: Journal of Allergy and Clinical Immunology, (1995) Vol.
95,
No. 3, pp. 742-747.
ISSN: 0091-6749.

DOCUMENT TYPE: Article
LANGUAGE: English

ABSTRACT:
Background: There have been conflicting reports about the effects of inhibition of arachidonic acid metabolism on early- and late-phase cutaneous reactions. We

reexamined this question with a unique nonsteroidal antiinflammatory drug, tenidap sodium. Tenidap sodium has been demonstrated in in vitro studies to inhibit cyclooxygenase, lipoxygenase, and cytokine production (***interleukin*** -1, interleukin-6, tumor necrosis factor-alpha).

Methods: In a double-blind, randomized, crossover study, seven pollen-sensitive subjects ingested tenidap (120 mg, by mouth, daily) and placebo for 9 days with

a 3-week washout period between treatments. On the eighth day they underwent ***allergen*** skin testing, measurable for up to 12 hours, and on the ninth day they underwent 5-hour skin chamber exposures to allergen and buffer. Chamber fluids were analyzed for cellular content, neutrophil granule protein release, cyclooxygenase and lipoxygenase arachidonic acid metabolites, histamine, and tryptase. Results: Tenidap did significantly inhibit cyclooxygenase metabolites at both antigen and buffer sites but had no effect on histamine, tryptase, lipoxygenase metabolites, or granulocyte infiltration. Neutrophil granule release of lactoferrin was lower at the antigen site during tenidap administration, but there was no reduction of elastase release. Prostaglandin E-2 and leukotriene E-4 increased significantly at antigen sites compared with buffer sites during placebo administration and were

the most prominent arachidonic acid metabolites detected. Conclusion: Tenidap, despite inhibiting cyclooxygenase release at antigen sites, had no effect on skin test responses to antigen or on antigen-induced mediator release or granulocyte infiltration. We conclude that cyclooxygenase metabolites are not important in the development of an allergic cutaneous ***inflammatory*** response.

CONCEPT CODE: Biochemical Studies - Proteins, Peptides and Amino Acids 10064
Biochemical Studies - Lipids 10066
Enzymes - Physiological Studies *10808
Pathology, General and Miscellaneous - Inflammation and Inflammatory Disease *12508
Metabolism - Lipids *13006
Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and Reticuloendothelial System *15008
Endocrine System - General *17002
Integumentary System - Pathology *18506
Immunology and Immunochemistry - Immunopathology, Tissue Immunology *34508
Allergy *35500

BIOSYSTEMATIC CODE: Hominidae *86215

INDEX TERMS: Major Concepts
Allergy (Clinical Immunology, Human Medicine, Medical Sciences); Blood and Lymphatics (Transport and Circulation); Clinical Immunology (Human Medicine, Medical Sciences); Dermatology (Human Medicine, Medical Sciences); Endocrine System (Chemical Coordination and Homeostasis); Enzymology (Biochemistry and Molecular Biophysics); Metabolism; Pathology

INDEX TERMS: Chemicals & Biochemicals
ARACHIDONIC ACID; CYCLOOXYGENASE; LEUKOTRIENE E4

INDEX TERMS: Miscellaneous Descriptors
 LEUKOTRIENE E4; PROSTAGLANDIN E2
 ORGANISM: Super Taxa
 Hominidae: Primates, Mammalia, Vertebrata, Chordata,
 Animalia
 ORGANISM: Organism Name
 Hominidae (Hominidae)
 ORGANISM: Organism Superterms
 animals; chordates; humans; mammals; primates; vertebrates
 REGISTRY NUMBER: 506-32-1 (ARACHIDONIC ACID)
 39391-18-9 (CYCLOOXYGENASE)
 75715-89-8 (LEUKOTRIENE E4)

L14 ANSWER 7 OF 7 BIOSIS COPYRIGHT 2000 BIOSIS
 ACCESSION NUMBER: 1991:287599 BIOSIS
 DOCUMENT NUMBER: BR41:8019
 TITLE: MODULATION OF PHENOTYPIC AND FUNCTIONAL PROPERTIES OF
 HUMAN MONOCYTES BY INTERLEUKIN-4 AND BOVINE
LACTOFERRIN.
 AUTHOR(S): PAUL-EUGENE N; DUGAS B; LAGENTE V; CHOUAIB S;
 MENCIA-HUERTA J M; GALLACIER J P; BRAQUET P; RIALLAND J P;
 PAUBERT-BRAQUET M
 CORPORATE SOURCE: INSTITUT HENRI BEAUFOUR, 91952 LES ULIS, FR.
 SOURCE: 75TH ANNUAL MEETING OF THE FEDERATION OF AMERICAN
 SOCIETIES FOR EXPERIMENTAL BIOLOGY, ATLANTA, GEORGIA, USA, APRIL
 21-25, 1991. FASEB (FED AM SOC EXP BIOL) J, (1991) 5 (5),
 A1012.
 CODEN: FAJOEC. ISSN: 0892-6638.
 DOCUMENT TYPE: Conference
 FILE SEGMENT: BR; OLD
 LANGUAGE: English
 CONCEPT CODE: General Biology - Symposia, Transactions and Proceedings
 of Conferences, Congresses, Review Annuals 00520
 Cytology and Cytochemistry - Human *02508
 Biochemical Studies - Proteins, Peptides and Amino Acids
 10064
 Pathology, General and Miscellaneous - Inflammation and
 Inflammatory Disease *12508
 Blood, Blood-Forming Organs and Body Fluids - Blood Cell
 Studies *15004
 Blood, Blood-Forming Organs and Body Fluids - Lymphatic
 Tissue and Reticuloendothelial System *15008
 Immunology and Immunochemistry - Immunopathology, Tissue
 Immunology *34508
 Allergy 35500
 BIOSYSTEMATIC CODE: Bovidae 85715
 Hominidae 86215
 INDEX TERMS: Miscellaneous Descriptors
 ABSTRACT HUMAN ALLERGY INFLAMMATION

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ENTER L# LIST OR (END):L5

DUPLICATE IS NOT AVAILABLE IN 'CAOLD'.
 ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
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PROCESSING COMPLETED FOR L5

L15 217 DUPLICATE REMOVE L5 (167 DUPLICATES REMOVED)

=> s l15 and (lactoferrin? (p) interleukin?)

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'TOFERRIN? (P) INTERLEUK'
L16 149 L15 AND (LACTOFERRIN? (P) INTERLEUKIN?)

=> s l15 and (pharmaceuti? or therapeuti?)

L17 20 L15 AND (PHARMACEUTI? OR THERAPEUTI?)

=> d ibib abs 1-5

L17 ANSWER 1 OF 20 MEDLINE

ACCESSION NUMBER: 1999003149 MEDLINE

DOCUMENT NUMBER: 99003149

TITLE: Complement activation in relation to capillary leakage in children with septic shock and purpura.

AUTHOR: Hazelzet J A; de Groot R; van Mierlo G; Joosten K F; van der Voort E; Eerenberg A; Suur M H; Hop W C; Hack C E

CORPORATE SOURCE: Divisions of Pediatric Intensive Care, Department of Pediatrics, Sophia Children's Hospital/University Hospital Rotterdam, The Netherlands.. hazelzet@alg.azr.nl

SOURCE: INFECTION AND IMMUNITY, (1998 Nov) 66 (11) 5350-6.
Journal code: GO7. ISSN: 0019-9567.

PUB. COUNTRY: United States
(CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Cancer Journals

ENTRY MONTH: 199901

ENTRY WEEK: 19990104

AB To assess the relationship between capillary leakage and inflammatory mediators during sepsis, blood samples were taken on hospital admission, as well as 24 and 72 h later, from 52 children (median age, 3.3 years) with severe meningococcal sepsis, of whom 38 survived and 14 died.

Parameters related to cytokines (interleukin 6 [IL-6] IL-8, plasma phospholipase A2, and C-reactive protein [CRP]), to neutrophil degranulation (elastase and lactoferrin), to complement activation (C3a, C3b/c, C4b/c, and C3- and C4-CRP complexes), and to complement regulation (functional and inactivated C1 inhibitor and C4BP) were determined. The degree of capillary leakage was derived from the amount of plasma infused and the severity of disease by assessing the pediatric risk of mortality (PRISM) score. Levels of IL-6, IL-8, C3b/c, C3-CRP complexes, and C4BP on admission, adjusted for the duration of skin

lesions, were significantly different in survivors and nonsurvivors (C3b/c

levels were on average 2.2 times higher in nonsurvivors, and C3-CRP levels

were 1.9 times higher in survivors). Mortality was independently related to the levels of C3b/c and C3-CRP complexes. In agreement with this, levels of complement activation products correlated well with the PRISM score or capillary leakage. Thus, these data show that complement activation in patients with severe meningococcal sepsis is associated with

a poor outcome and a more severe disease course. Further studies should reveal whether complement activation may be a target for therapeutic intervention in this disease.

L17 ANSWER 2 OF 20 MEDLINE

ACCESSION NUMBER: 1998273763 MEDLINE

DOCUMENT NUMBER: 98273763
TITLE: **Lactoferrin lowers serum interleukin 6**
to
surgery.
AUTHOR: Zimecki M; Wlaszczyk A; Zagulski T; Kubler A
CORPORATE SOURCE: Institute of Immunology and Experimental Therapy, Polish
Academy of Sciences, Wroclaw.
SOURCE: ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS, (1998)
46 (2) 97-104.
Journal code: 790. ISSN: 0004-069X.
PUB. COUNTRY: Poland
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199810
ENTRY WEEK: 19981002
AB Mice subjected to thymectomy or splenectomy in general anesthesia release interleukin 6 (IL-6) and tumor necrosis factor alpha (TNF-alpha) into circulation reaching high concentrations after 4 h following operation. In the case of thymectomy IL-6 can be detected only on the day of operation and TNF-alpha attains a maximal value on day 3 postoperation.
Splenectomy, which is a more extensive surgical operation, results in a higher, and more prolonged existence of IL-6 in circulation accompanied by higher levels of TNF-alpha. Bovine **lactoferrin** (BLF; 10 mg/mouse), given intravenously (i.v.) 24 h before thymectomy, reduced, on average, the level of serum IL-6 by 70% as measured 4 h after operation. The inhibiting effect of BLF on TNF-alpha production was smaller with a mean 30% reduction. The effects of BLF (i.v.) administration on the cytokine levels following splenectomy were less inhibitory. BLF caused an approximate 35% fall in IL-6 levels and even weaker effects (20% inhibition) on TNF-alpha release. Application of much lower (1-0.2 mg) per os doses of BLF was even more effective in lowering IL-6 levels after thymectomy (up to 90%) after 5 BLF doses, and by 55% of TNF-alpha. The data suggest that **lactoferrin** may find **therapeutical** application for diminishing manifestations of shock caused by clinical insults.

L17 ANSWER 3 OF 20 MEDLINE
ACCESSION NUMBER: 1998168225 MEDLINE
DOCUMENT NUMBER: 98168225
TITLE: Functional studies of maturing myeloid cells during ex vivo expansion for treatment of aplasia: feasibility of ex vivo expansion from cryopreserved bone marrow cell samples.
AUTHOR: Neildez-Nguyen T M; Vetillard J; Drouet M; Herodin F; Brouard N; Mestries J C; Thierry D
CORPORATE SOURCE: Institut de Protection et de Surete Nucleaire, Departement de Protection de la sante de l'Homme et de Dosimetrie, Fontenay-aux-Roses, France.
SOURCE: JOURNAL OF HEMATOTHERAPY, (1998 Feb) 7 (1) 69-79.
Journal code: B3T. ISSN: 1061-6128.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199808
ENTRY WEEK: 19980801
AB Ex vivo expanded CD34+ progenitor cells from fresh or cryopreserved primate bone marrow, induced to granulocytic differentiation with growth factors, were investigated to determine whether myeloid cells produced in liquid cultures have the normal biologic functions needed for the

treatment of patients with neutropenia following high-dose chemotherapy
or
therapeutic or accidental radiation exposure. Human and simian
(baboons or macaques) CD34+ cells were cultured with granulocyte-colony
stimulating factor (G-CSF), stem cell factor (SCF), interleukin
-1 (IL-1), IL-3, and IL-6, and assessed at 14 days of culture for their
capacity to respond to different functional tests. Immunostaining
revealed

that human ex vivo expanded cells contained myeloperoxidase (MPO, 82% +/-
8%) and lactoferrin (LF, 30% +/- 6%) in their granules.

Maturation of cultured cells was associated with stimulated chemotactic
responsiveness and respiratory burst activity (superoxide anion and
hydrogen peroxide production) in expansions from human, baboon, and
macaque CD34+ progenitor cells. Mature cells obtained from ex vivo
expansion of selected cryopreserved human bone marrow CD34+ cells
presented reduced but significant functional activities (chemotactic
responsiveness and hydrogen peroxide production) when compared with human
peripheral blood neutrophils. The validation of nonhuman primate ex vivo
expansion systems may permit their use as models of irradiation. The
feasibility of ex vivo expansion from cryopreserved bone marrow cell
samples may offer considerable opportunity for banking bone marrow for
autologous transfusion.

L17 ANSWER 4 OF 20 MEDLINE
ACCESSION NUMBER: 97413344 MEDLINE
DOCUMENT NUMBER: 97413344
TITLE: Modulation of cytokine release and neutrophil function by
granulocyte colony-stimulating factor during endotoxemia
in
humans.
AUTHOR: Pajkrt D; Manten A; van der Poll T; Tiel-van Buul M M;
Jansen J; Wouter ten Cate J; van Deventer S J
CORPORATE SOURCE: Department of Nuclear Medicine, and Center for Hemostasis,
Thrombosis, Atherosclerosis and Inflammation Research,
Academic Medical Center, University of Amsterdam, The
Netherlands.
SOURCE: BLOOD, (1997 Aug 15) 90 (4) 1415-24.
Journal code: A8G. ISSN: 0006-4971.
PUB. COUNTRY: United States
(CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals; Cancer
Journals
ENTRY MONTH: 199711
ENTRY WEEK: 19971104
AB In this double-blind, cross-over, placebo-controlled, randomized study,
two groups of eight healthy male volunteers were challenged with
endotoxin
(4 ng/kg) on two occasions, once in conjunction with placebo and once
with
granulocyte colony-stimulating factor (G-CSF; 5 microg/kg). In group 1,
G-CSF was administered intravenously 2 hours before endotoxin challenge;
in group 2, G-CSF was administered subcutaneously 24 hours before
endotoxin challenge. In group 1, G-CSF significantly enhanced the release
of tumor necrosis factor (TNF), interleukin-6 (IL-6), IL-8, IL-1
receptor antagonist (IL-1ra), and soluble TNF receptors. In group 2,
G-CSF
significantly reduced IL-8 concentrations and modestly attenuated TNF and
IL-6 levels. In this group, IL-1ra and soluble TNF receptors were
enhanced
by G-CSF pretreatment and lipopolysaccharide (LPS)-induced soluble TNF
receptor release was further augmented, whereas LPS-induced IL-1ra
concentrations remained unaltered. Both pretreatments with G-CSF
increased

LPS-induced peripheral neutrophilia; the expression of CD11b, CD18, and CD67; and the release of elastase and **lactoferrin**. Both pretreatments also down-regulated neutrophil L-selectin expression and prevented the endotoxin-induced pulmonary neutrophil accumulation during the first 2 hours after endotoxin challenge. These data indicate that two different pretreatments with G-CSF result in differential effects on LPS-induced cytokine release but similar effects on LPS-induced neutrophil

activation and changes in expression of cell surface molecules. Finally, regardless of the effects of G-CSF on LPS-induced cytokine release, G-CSF blocks LPS-induced pulmonary granulocyte accumulation.

L17 ANSWER 5 OF 20 MEDLINE
ACCESSION NUMBER: 97320669 MEDLINE
DOCUMENT NUMBER: 97320669
TITLE: Relation of **lactoferrin** levels in gastric mucosa with *Helicobacter pylori* infection and with the degree of gastric inflammation.
AUTHOR: Nakao K; Imoto I; Ikemura N; Shibata T; Takaji S; Taguchi Y; Misaki M; Yamauchi K; Yamazaki N
CORPORATE SOURCE: Third Department of Internal Medicine, Mie University School of Medicine, the National Tsu Hospital, Japan.
SOURCE: AMERICAN JOURNAL OF GASTROENTEROLOGY, (1997 Jun) 92 (6) 1005-11.
PUB. COUNTRY: Journal code: 3HE. ISSN: 0002-9270.
United States
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)
English
FILE SEGMENT: Priority Journals; Cancer Journals
ENTRY MONTH: 199709
ENTRY WEEK: 19970902
AB OBJECTIVES: **Lactoferrin** (Lf) is an iron-binding glycoprotein present in milk, lacrimae, saliva, and gastroduodenal secretions. In vitro studies disclosed contradicting results regarding the relation of Lf with *Helicobacter pylori* (HP) infection. This study aimed to investigate the relationship between the gastric mucosal concentration of Lf and HP infection of the stomach. The relationship of the gastric mucosal level of Lf with the gastric mucosal concentration of **interleukin-8** (IL-8) and with the intragastric ammonia levels was also assessed. In addition, the gastric mucosal Lf levels before and after eradication of HP infection were also evaluated. METHODS: This study was composed of 27 HP-positive and 12 HP-negative patients with chronic gastritis. Gastric mucosal biopsy specimens were obtained from all subjects by endoscopy, and the degree of histological inflammatory changes were assessed according to the Sydney system. The gastric mucosal levels of Lf and IL-8 were measured by immunoassays. Assessment of the effect of therapy on the gastric mucosal level of Lf was performed in 10 patients with HP-associated duodenal ulcer. RESULTS: Lf, IL-8, and ammonia levels were significantly higher in patients with HP-positive gastritis compared with those with HP-negative gastritis in both the antrum and the gastric body. Histologically, the degree of inflammatory changes correlated significantly with the Lf levels in the gastric mucosa. Furthermore, the degree of HP colonization was more significant in biopsy samples from the antrum than in those from the corpus of the stomach. The gastric mucosal levels of Lf and IL-8 correlated significantly in the antrum and the gastric body. The ammonia intragastric level significantly correlated with the mucosal Lf level in the antrum and in the gastric body. Therapy significantly decreased the Lf levels in the gastric mucosa of the antrum ($p < 0.005$) and the gastric body ($p < 0.005$). CONCLUSION: The results of

the present investigation showed, for the first time *in vivo*, that Lf concentration is increased in the biopsy specimens of patients with HP-related gastritis, and that the levels of Lf correlate significantly with the degree of inflammation of the gastric mucosa. The gastric mucosal level of Lf may constitute an excellent marker of HP infection.

=> d ibib abs 6-20

L17 ANSWER 6 OF 20 MEDLINE
ACCESSION NUMBER: 96437021 MEDLINE
DOCUMENT NUMBER: 96437021
TITLE: Effects of recombinant soluble type I **interleukin**-1 receptor on human inflammatory responses to endotoxin.
AUTHOR: Preas H L 2nd; Reda D; Tropea M; Vandivier R W; Banks S M; Agosti J M; Suffredini A F
CORPORATE SOURCE: Critical Care Medicine Department, Warren G. Magnuson Clinical Center, National Institutes of Health, Bethesda, MD 20892-1662, USA.
SOURCE: BLOOD, (1996 Oct 1) 88 (7) 2465-72.
Journal code: A8G. ISSN: 0006-4971.
PUB. COUNTRY: United States
(CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals; Cancer Journals
ENTRY MONTH: 199701
ENTRY WEEK: 19970104
AB Effects of soluble recombinant human type I **interleukin-1** receptor (sIL-1RI) were evaluated in 18 volunteers given intravenous endotoxin and randomized to placebo (n = 6), low-dose (n = 6), or high-dose (n = 6) sIL-1RI. Soluble IL-1RI decreased IL-1 beta (P = .001), but decreased IL-1ra (P = .0001), and resulted in 10-fold and 43-fold dose-related increases in sIL-1RI-IL-1ra complexes compared with placebo (P < or = .001). High-dose sIL-1RI was associated with increased levels of immunoactive tumor necrosis factor-alpha (P = .02), IL-8 (P = .0001), and cell-associated IL-1 beta (P = .047). C-reactive protein levels were higher after sIL-1RI than placebo (P = .035). Soluble IL-1RI decreased the severity of chills (P = .03), but did not alter other symptoms, changes in temperature, systemic hemodynamic responses, or changes in leukocyte and platelet number. Thus, sIL-1RI had no discernable antiinflammatory effect following endotoxin administration due in part to low levels of circulating IL-1 beta and neutralization of IL-1ra inhibitory function. This latter interaction represents an indirect mechanism of agonist activity elicited by sIL-1RI and may contribute to increases in inflammatory mediators, limiting therapy with sIL-1RI during endotoxemia.

L17 ANSWER 7 OF 20 MEDLINE
ACCESSION NUMBER: 96108886 MEDLINE
DOCUMENT NUMBER: 96108886
TITLE: IL-1 beta does not cause neutrophil degranulation but does lead to IL-6, IL-8, and nitrite/nitrate release when used in patients with cancer.
AUTHOR: Ogilvie A C; Hack C E; Wagstaff J; van Mierlo G J;
Erenberg
CORPORATE SOURCE: A J; Thomsen L L; Hoekman K; Rankin E M
Department of Medical Oncology, The Netherlands Cancer Institute-Antoni van Leeuwenhoek Hospital, University of

SOURCE: Amsterdam.
JOURNAL OF IMMUNOLOGY, (1996 Jan 1) 156 (1) 389-94.
Journal code: IFB. ISSN: 0022-1767.

PUB. COUNTRY: United States
(CLINICAL TRIAL)
(CLINICAL TRIAL, PHASE I)
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals; Cancer Journals

ENTRY MONTH: 199606

AB The use of IL-1 in humans is associated with dose-limiting toxicity which resembles that of TNF-alpha or IL-2. Activation of neutrophils is thought to contribute to the toxicity caused by these two cytokines. We studied the effect of IL-1 in vivo on changes in neutrophil numbers and neutrophil degranulation as well as on the formation of neutrophil agonists, such as complement activation products, and on levels of TNF, IL-6, IL-8, and nitrite/nitrate (as a measure of nitric oxide production). Six patients with metastatic melanoma were treated with 3 ng/kg recombinant human IL-1 beta daily. One hour after the start of the 30-min IL-1 infusion, which caused mild cardiovascular toxicity, plasma levels of IL-6 reached a peak of 25 +/- 9 ng/L (mean +/- SEM), IL-8 reached a peak of 311 +/- 100 ng/L at 2 h, and nitrite/nitrate peaked after 10 h to 89 +/- 27 mumol/L. IL-1 did not induce significant changes in plasma levels of TNF or of the complement activation products C3a and C4b/c. Although IL-1 induced neutrophilia, levels of elastase and lactoferrin did not change. The failure of IL-1 to degranulate neutrophils was confirmed in an ex vivo model with whole blood culture in which doses of up to 100 microgram/L IL-1 beta or IL-1 alpha failed to induce significant elastase or lactoferrin release, whereas TNF, tested as a positive control, was able to do so. These results demonstrate that, unlike TNF, IL-1 does not cause neutrophil degranulation in man, despite its ability to cause neutrophilia and the rapid release of IL-6, IL-8, and nitrite/nitrate.

L17 ANSWER 8 OF 20 MEDLINE

ACCESSION NUMBER: 95210148 MEDLINE

DOCUMENT NUMBER: 95210148

TITLE: The release of interleukin-8 during intravenous bolus treatment with interleukin-2.

AUTHOR: Baars J W; Wolbink G J; Hart M H; Hack C E; Eerenberg-Belmer A J; Pinedo H M; Wagstaff J

CORPORATE SOURCE: Department of Medical Oncology, Free University Hospital, Amsterdam, The Netherlands.

SOURCE: ANNALS OF ONCOLOGY, (1994 Dec) 5 (10) 929-34.
Journal code: AYF. ISSN: 0923-7534.

PUB. COUNTRY: Netherlands
(CLINICAL TRIAL)
(CLINICAL TRIAL, PHASE II)
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199507

AB OBJECTIVE: To study the role that interleukin-8 might play in the activation of polymorphonuclear neutrophils during interleukin-2 therapy and the relationship of these phenomena to interleukin-2 induced toxicity. DESIGN: A cohort study with measurements before and after the administration of interleukin-2. SETTING: Medical oncology department of a large teaching hospital. PATIENTS: Fourteen patients with metastatic renal cell carcinoma and 10 with metastatic melanoma being treated in a phase 2 study of the sequential combination of interferon-gamma and interleukin-2. MEASUREMENTS: Plasma levels of tumour necrosis factor-alpha, interleukins-6 and 8 and

to
markers of neutrophil activation (neutrophil elastase and lactoferrin) were measured in patients receiving 5 daily injections of interferon-gamma (100 micrograms/m²/day) followed by 5 days of interleukin-2 (18 x 10(6) IU/m²/day). MAIN RESULTS: Tumour necrosis factor-alpha rose from baseline levels of 32 (range, 12 to 56) to 343 (103 to 787) pg/ml 3 hours after interleukin-2 administration returning to baseline values 21 hours later. Interleukins-6 and -8 rose from baseline levels of 6 (5 to 10) and 75 (35 to 100) to 2151 (152 to 7259) and 1283 (490 to 2500) pg/ml, respectively, at 4 hours after interleukin-2 with both returning to baseline values by 24 hours. Peak levels of neutrophil elastase and lactoferrin, both markers of neutrophil activation, occurred 6 hours after interleukin-2 administration. CONCLUSIONS: These data indicate that following administration of interleukin-2 tumour necrosis factor-alpha is released followed sequentially by rises in

interleukins-6 and -8. It is hypothesised that these events result in activation of polymorphonuclear neutrophils. These activated neutrophils may play an important role in initiating endothelial cell damage leading to the haemodynamic toxicity and the capillary leak syndrome which is typically seen following the administration of interleukin-2.

L17 ANSWER 9 OF 20 MEDLINE
ACCESSION NUMBER: 95107729 MEDLINE
DOCUMENT NUMBER: 95107729
TITLE: Dexamethasone treatment of infants at risk for chronic lung disease: surfactant components and inflammatory parameters in airway specimens.
AUTHOR: Kari M A; Raivio K O; Venge P; Hallman M
CORPORATE SOURCE: Children's Hospital, University of Helsinki, Finland..
SOURCE: PEDIATRIC RESEARCH, (1994 Sep) 36 (3) 387-93.
Journal code: OWL. ISSN: 0031-3998.
PUB. COUNTRY: United States
(CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(MULTICENTER STUDY)
(RANDOMIZED CONTROLLED TRIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199504
AB The mechanisms explaining the beneficial effects of glucocorticoid in ventilator-dependent preterm infants are not known. In the present randomized trial, we evaluated the hypothesis that dexamethasone (DEX) treatment of small, preterm infants at risk for chronic lung disease favorably affects the surfactant system. Twenty-three ventilator-dependent infants, with a mean +/- SD gestational age of 26 +/- 2 wk and a mean birth weight of 836 +/- 173 g, received 1 wk of treatment with either DEX (dose 0.5 mg/kg/d) or placebo beginning at 2 wk of age. The airway specimens were analyzed for surfactant components, surface activity, surfactant inhibitors, and inflammatory mediators. The concentrations of these parameters in epithelial lining fluid were calculated using the urea method. DEX treatment decreased the concentration of nonsedimentable protein in epithelial lining fluid within 3 d ($p < 0.05$). The nonsedimentable fraction of airway specimens decreased the surface activity of surfactant as a function of protein concentration. At a constant protein concentration, the protein from placebo-treated infants inhibited the surface activity of human surfactant in vitro more than protein from DEX-treated infants ($p < 0.05$). DEX transiently increased the concentration of surfactant protein-A in epithelial lining fluid but had

on no effect on surface activity of the sedimentable surfactant complex or concentrations of phosphatidylcholine, IL-1 beta, **lactoferrin**, or myeloperoxidase. We conclude that the acute beneficial effect of DEX treatment in preterm ventilator-dependent infants may in part be mediated through a decrease in the concentration of non-sedimentable protein and a decrease in the capacity of this protein to inhibit surface activity.

L17 ANSWER 10 OF 20 MEDLINE
ACCESSION NUMBER: 92126510 MEDLINE
DOCUMENT NUMBER: 92126510
TITLE: The activation of polymorphonuclear neutrophils and the complement system during immunotherapy with recombinant **interleukin-2**.
AUTHOR: Baars J W; Hack C E; Wagstaff J; Eerenberg-Belmer A J;
Wolbink G J; Thijs L G; Strack van Schijndel R J; van der
Vall H L; Pinedo H M
CORPORATE SOURCE: Department of Medical Oncology, Free University Hospital,
Amsterdam, Netherlands..
SOURCE: BRITISH JOURNAL OF CANCER, (1992 Jan) 65 (1) 96-101.
Journal code: AV4. ISSN: 0007-0920.
PUB. COUNTRY: ENGLAND: United Kingdom
(CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals; Cancer Journals
ENTRY MONTH: 199205
AB The toxicity due to **interleukin-2** (IL-2) strongly resembles the clinical picture seen during septic shock. In septic shock activation of polymorphonuclear neutrophils (PMN) and the complement system contribute significantly to the pathophysiology of the condition. We therefore investigated whether similar events contributed to the toxicity observed with IL-2. Four patients received seven cycles of escalating dose IL-2 (18.0 to 72.0 X 10(6) IU m⁻² day⁻¹) and 16 were treated with 20 cycles of fixed dose IL-2 (12.0 or 18.0 X 10(6) IU m⁻² day⁻¹). Toxicity, as judged by hypotension (P = less than 0.005) and capillary leakage (fall in serum albumin 18.2 vs 4.0 gm l⁻¹; P = less than 0.0005 and weight gain 4.0 vs 1.2 kg; P = less than 0.025) were worse with the esc. dose protocol. PMN became activated following IL-2 with mean peak elastase/alpha 1-antitrypsin (E alpha 1 A) and **lactoferrin** values of 212 (SEM = 37) and 534 (SEM = 92) ng ml⁻¹ respectively occurring 6 h after the IL-2. Peak values for the esc. dose IL-2 group being generally higher than 500 ng ml⁻¹. Activation of the complement cascade was evidenced by a dose dependent elevation of peak C3a values (fixed dose 9.1 (SEM = 0.6); esc. dose 25.7 (SEM = 6.33); P = less than 0.005) on day 5 of IL-2. There was
a significant correlation between C3a levels and the degree of hypotension during the first 24 h after IL-2 (r = 0.91) and parameters of capillary leakage such as weight gain and fall in serum albumin (r = 0.71). These data suggest that activation of PMN initiates endothelial cell damage which subsequently leads to activation of the complement cascade. This latter system then contributes to the haemodynamic changes and capillary leakage seen in IL-2 treated patients.

L17 ANSWER 11 OF 20 MEDLINE
ACCESSION NUMBER: 91077026 MEDLINE
DOCUMENT NUMBER: 91077026
TITLE: New **therapeutic** strategies in the treatment of murine diseases induced by virus and solid tumors: biology and implications for the potential treatment of human leukemia, AIDS, and solid tumors.
AUTHOR: Shen R N; Lu L; Broxmeyer H E
CORPORATE SOURCE: Department of Radiation Oncology/Medicine, Walther
Oncology Center, Indiana School of Medicine, Indianapolis.

SOURCE: CRITICAL REVIEWS IN ONCOLOGY/HEMATOLOGY, (1990) 10 (3)
253-65. Ref: 166
Journal code: AGO. ISSN: 1040-8428.

PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, ACADEMIC)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199104

AB Understanding the biology and treatment of various cancers (including leukemia) and immunodeficiency disorders is still an ongoing and experimental process. Animal models have been and continue to be important to this process. This review will focus in on work by ourselves and others that have used murine models assessing the effects *in vivo* of the Friend virus complex (FVC, composed of a spleen focus forming virus and a murine leukemia helper virus) and solid tumors with metastatic potential in order to evaluate new and innovative therapies. These therapies include radiation, hyperthermia, and newly recognized naturally occurring biomolecules termed cytokines. These cytokines include, but are not limited to, the interferons, the tumor necrosis factors, the interleukins, the hematopoietic colony stimulating factors, lactoferrin and E-type prostaglandins. For example, it has been found that lactoferrin, when administered early enough, prolongs the survival of mice injected, but not yet infected, with the FVC. Of even greater potential usefulness is that mice already infected with the FVC can be completely rescued from death by treatment with split low dosage (150 cGy) total body irradiation. Irradiation treatment was associated with restoration of the T helper to T suppressor cell ratio, natural killer cell activity and marrow proliferative responses to the mitogens PHA and con A which were compromised by the FVC. More recent studies in our laboratory have demonstrated the potential of the interleukins and colony stimulating factors to decrease the metastatic potential of the B16 melanoma and the Lewis Lung Carcinoma cell lines. The cytokines can act in greater than additive fashion and combinations of therapies are possible. This review is meant to increase the awareness of these investigative animal models and the new types of combination therapies that can then be used as the basis for future clinical trials evaluating therapeutic efficacy.

L17 ANSWER 12 OF 20 MEDLINE

ACCESSION NUMBER: 90352600 MEDLINE

DOCUMENT NUMBER: 90352600

TITLE: Differentiation and growth modulation of chronic myelogenous leukemia cells by bryostatin.

AUTHOR: Lilly M; Tompkins C; Brown C; Pettit G; Kraft A

Corporate SOURCE: Division of Medical Oncology, University of Washington, Seattle.

CONTRACT NUMBER: CA45672 (NCI)
CA42533 (NCI)
CA16049 (NCI)

SOURCE: CANCER RESEARCH, (1990 Sep 1) 50 (17) 5520-5.
Journal code: CNF. ISSN: 0008-5472.

PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Cancer Journals

ENTRY MONTH: 199011

AB We have examined the ability of bryostatin 1 (bryo), an activator of protein kinase C, to induce differentiation of chronic myelogenous

leukemia (CML) cells obtained from peripheral blood. Bryo induced a prompt

and persistent macrophage-like differentiation, as evidenced by functional, morphological, and immunological criteria. Differentiated cells remained viable for at least 21 days with little change in cell number. CML cell cultures treated in semisolid medium with bryo showed diffuse infiltration with single macrophages, as well as discrete macrophage, mixed, and granulocytic colonies. Supernatants of suspension cultures of bryo-treated CML cells contained granulocyte-macrophage colony-stimulating factor (GM-CSF) by enzyme-linked immunosorbent assay. Furthermore, colony formation could be significantly inhibited by the addition of antibodies to GM-CSF. Prolonged liquid culture of CML cells

in

bryo reduced colony-forming unit, granulocyte-macrophage content. Bryo-induced differentiation was associated with a decrease in lactoferrin, a marker of granulocyte differentiation, and an increase in both c-fms and interleukin-1 beta RNA, both of which are expressed by monocytes/macrophages. These data demonstrate that bryostatin 1 is capable of inducing macrophage-like differentiation in maturing CML cells. Furthermore, bryostatin induces secretion of GM-CSF

by

such cells in suspension and semisolid medium and also promotes clonal extinction of granulocyte-macrophage progenitors. Bryostatin may be a possible therapeutic agent for CML.

L17 ANSWER 13 OF 20 MEDLINE

ACCESSION NUMBER: 86162692 MEDLINE

DOCUMENT NUMBER: 86162692

TITLE: Iron, infection, and neoplasia.

AUTHOR: Weinberg E D

SOURCE: CLINICAL PHYSIOLOGY AND BIOCHEMISTRY, (1986) 4 (1) 50-60.

Ref: 48

Journal code: DHS. ISSN: 0252-1164.

PUB. COUNTRY: Switzerland

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198607

AB In nearly all forms of life, the number and diversity of enzymes that contain iron or that depend on the presence of this metal for activity are

impressive. Not surprisingly, chemical mechanisms have been evolved by many organisms that permit them to solubilize and acquire iron while at the same time depriving their competitors or their pathogens of this element. Proteins such as transferrin and lactoferrin that are employed by vertebrate hosts for iron transport and acquisition can, to some extent, withhold the metal from the siderophores of invading bacteria

and fungi. Attempts also are made by animal hosts to withhold iron from protozoa and neoplastic cells. Unfortunately, pathogenic microorganisms have developed a variety of counter measures that are especially dangerous

in hosts stressed by iron overload in specific fluids, tissues, or cells. In recent years, however, a number of possible methods and agents for strengthening iron-withholding defense have become apparent. Nearly 3,000 papers on various aspects of iron withholding are contained in the

18-year

Medline Database and numerous reviews have been published since 1966. The present paper will focus on developments that have been reported within the past 2 1/2 years.

L17 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1999:659489 CAPLUS

DOCUMENT NUMBER: 131:268984

TITLE: Chromatographic purification of human acid
 .alpha.-glucosidase and its use for treatment of
 Pompe's disease
 INVENTOR(S): Van Corven, Emile; Weggeman, Miranda
 PATENT ASSIGNEE(S): Pharming Intellectual Property B.V., Neth.
 SOURCE: PCT Int. Appl., 83 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9951724	A1	19991014	WO 1999-EP2475	19990406
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9935229	A1	19991025	AU 1999-35229	19990406
PRIORITY APPLN. INFO.:				
			GB 1998-7464	19980407
			WO 1999-EP2475	19990406

AB The invention provides methods of purifying human acid .alpha.-glucosidase, particularly from the milk of transgenic animals. The methods employ two chromatog. steps. The first step is usually anion exchange chromatog. and the second step is hydrophobic interaction chromatog. The purifn. procedure readily generates human .alpha.-glucosidase in at least 99 % wt./wt. purity. Also provided are pharmaceutical compns. and methods for using purified human acid .alpha.-glucosidase in treatment of patients with Pompe's disease.

L17 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2000 ACS
 ACCESSION NUMBER: 1998:682302 CAPLUS
 DOCUMENT NUMBER: 129:285991
 TITLE: Use of lactoferrin in the treatment of
 allergen-induced disorders
 INVENTOR(S): Kimber, Ian; Cumberbatch, Marie; Dearman, Rebecca J.;
 Conneely, Orla M.; Ward, Pauline
 PATENT ASSIGNEE(S): Agennix, Inc., USA
 SOURCE: PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9844940	A1	19981015	WO 1998-US7234	19980410
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9869647	A1	19981030	AU 1998-69647	19980410
EP 979099	A1	20000216	EP 1998-915471	19980410
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

IE, FI
PRIORITY APPLN. INFO.:

US 1997-41890 19970410
WO 1998-US7234 19980410

AB The present invention relates to pharmaceutical compns. and methods using lactoferrin for treating allergic disorders characterized by a local immune response including inflammatory skin reactions, asthma, and arthritis.

L17 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1998:324814 CAPLUS

DOCUMENT NUMBER: 129:32288

TITLE: Human therapeutic uses of bactericidal/permeability-increasing (BPI) protein products

INVENTOR(S): Friedmann, Nadav; Scannon, Patrick J.; Van Deventer, Sander J. H.; Vonder Mohlen, Marijke A. M.; Wedel, Nancy

PATENT ASSIGNEE(S): XOMA Corp., USA

SOURCE: U.S., 38 pp. Cont.-in-part of U.S. 5,643,875.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5753620	A	19980519	US 1995-378228	19950124
US 5643875	A	19970701	US 1994-291112	19940816
US 5952302	A	19990914	US 1998-81166	19980518
US 5990086	A	19991123	US 1998-203159	19981201
PRIORITY APPLN. INFO.:				
		US 1994-188221	19940124	
		US 1994-291112	19940816	
		US 1995-378228	19950124	
		US 1996-644287	19960510	
		US 1997-927437	19970910	

AB Disclosed are methods for treatment of humans exposed to bacterial endotoxin in circulation by administration of bactericidal/permeability-increasing (BPI) protein products. Serol. and hematol. verifiable alleviation of endotoxin-mediated increases in circulating cytokines, fibrinolysis and coagulation factors and changes in lymphocyte counts are obsd. upon such treatment. Also obsd. is alleviation of endotoxin-mediated decreases in systemic vascular resistance index (SVRI) and concomitant increases in cardiac index (CI).

L17 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1998:124033 CAPLUS

DOCUMENT NUMBER: 128:162900

TITLE: Treatment and prevention of infections, inflammations and/or tumors with lactoferrin and/or lactoferricin

INVENTOR(S): Hanson, Lars A.; Mattsby-Baltzer, Inger; Motas, Cecilia

PATENT ASSIGNEE(S): Holdingbolaget Vid Goteborgs Universitet AB, Swed.; Hanson, Lars A; Mattsby-Baltzer, Inger; Motas,

Cecilia

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 9806425	A1	19980219	WO 1997-SE1344	19970812
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, ES, FI, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				

AU 9738727	A1	19980306	AU 1997-38727	19970812
EP 920331	A1	19990609	EP 1997-935939	19970812
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.:	US 1996-23761	19960812
	WO 1997-SE1344	19970812

AB The invention relates to a **pharmaceutical** compn. comprising **lactoferrin** and/or lactoferricin for treatment and/or prevention of infections, inflammations, and/or tumors; to the use of **lactoferrin** and lactoferricin in the prodn. of a **pharmaceutical** compn. for treatment and/or prevention of infections, inflammations and tumors; and to a method for treatment and/or prevention of infections, inflammations and/or tumors comprising administration of **lactoferrin** and/or lactoferricin. The invention is particularly well suited for treatment and/or prevention of urinary tract infections and colitis. The **lactoferrin** and/or lactoferricin according to the present invention is preferably orally administered. Furthermore, the compn. comprising **lactoferrin** and/or lactoferricin may be included in an infant formula food.

L17 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2000 ACS
 ACCESSION NUMBER: 1997:537559 CAPLUS
 DOCUMENT NUMBER: 127:156711
 TITLE: Human **therapeutic** uses of bactericidal/permeability increasing (BPI) protein products
 INVENTOR(S): Friedmann, Nadav; Scannon, Patrick J.; Van Deventer, Sander J. H.; Vonder Mohlen, Marijke A. M.; Wedel, Nancy
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S., 36 pp. Cont.-in-part of U.S. Ser. No. 188,221, abandoned.
 DOCUMENT TYPE: CODEN: USXXAM
 LANGUAGE: Patent
 English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
US 5643875	A	19970701	US 1994-291112	19940816	
CA 2181816	AA	19950727	CA 1995-2181816	19950124	
AU 9516944	A1	19950808	AU 1995-16944	19950124	
AU 703728	B2	19990401			
EP 741575	A1	19961113	EP 1995-908723	19950124	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,					
SE	CN 1145033	A	19970312	CN 1995-191325	19950124
	JP 09508130	T2	19970819	JP 1995-519768	19950124
	US 5753620	A	19980519	US 1995-378228	19950124
	US 5952302	A	19990914	US 1998-81166	19980518
	US 5990086	A	19991123	US 1998-203159	19981201
PRIORITY APPLN. INFO.:					
			US 1994-188221	19940124	
			US 1994-291112	19940816	

US 1995-378228 19950124
WO 1995-US1151 19950124
US 1996-644287 19960510
US 1997-927437 19970910

AB Disclosed are methods for treatment of humans exposed to bacterial endotoxin in circulation by administration of bactericidal/permeability-increasing (BPI) protein products. Serol. and hematol. verifiable alleviation of endotoxin-mediated increases in circulating cytokines, fibrinolysis and coagulation factors and changes in lymphocyte counts are obsd. upon such treatment. Also obsd. is alleviation of endotoxin-mediated decreases in systemic vascular resistance index (SVRI) and concomitant increases in cardiac index (CI).

L17 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1996:612679 CAPLUS

DOCUMENT NUMBER: 125:230803

TITLE: Pharmaceutical and cosmetic compositions containing histamine and interleukin and alpha.-tumor necrosis factor antagonists

INVENTOR(S): De Lacharriere, Olivier; Breton, Lionel; Cohen, Catherine

PATENT ASSIGNEE(S): Oreal S. A., Fr.

SOURCE: Can. Pat. Appl., 25 pp.

CODEN: CPXXEB

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2166179	AA	19960629	CA 1995-2166179	19951227
FR 2728793	A1	19960705	FR 1994-15796	19941228
FR 2728793	B1	19970207		
EP 729750	A1	19960904	EP 1995-402677	19951128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE				
JP 08231432	A2	19960910	JP 1995-341294	19951227
US 5658581	A	19970819	US 1995-580291	19951228
US 5993833	A	19991130	US 1997-879889	19970620
PRIORITY APPLN. INFO.: FR 1994-15796 19941228				
US 1995-580291 19951228				

AB The title compns. are disclosed. A lotion contained cetrizine 0.001, antioxidants 0.05, isopropanol 40.00, preservatives 0.30, and water q.s. 100%.

L17 ANSWER 20 OF 20 BIOSIS COPYRIGHT 2000 BIOSIS

ACCESSION NUMBER: 1999:315256 BIOSIS

DOCUMENT NUMBER: PREV199900315256

TITLE: Is major liver surgery associated with an increased systemic inflammatory response? A prospective comparison of

AUTHOR(S): hemihepatectomy and other major abdominal surgery.

Wiezer, Marinus J. (1); Meijer, Catharina; Vuylsteke, Ronald; Pullens, Renee H.; Prins, Hubert A.; Cuesta,

Miguel

A.; Meijer, Sybren; Hack, C. Erik; van Leeuwen, Paul A.M.
(1)

CORPORATE SOURCE: (1) Department of Surgery, Free University Hospital, De Boelelaan 1117, 1081 HV, Amsterdam Netherlands

SOURCE: Liver, (June, 1999) Vol. 19, No. 3, pp. 220-227.
ISSN: 0106-9543.

DOCUMENT TYPE: Article

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Aims/Background: Extensive liver resection is associated with a higher morbidity and mortality than other major abdominal surgery. Because the liver is responsible for the clearance of pathogenic particles as well as the clearance and degradation of several inflammatory mediators, the high rate of complications after liver surgery may be due to an enhanced or prolonged inflammatory response. The objective of this prospective study was to investigate whether major liver resection is associated with an enhanced systemic inflammatory response. Methods: The course of various inflammatory parameters was studied in 12 patients undergoing a hemihepatectomy and the results were compared with those of 12 patients undergoing other major abdominal surgery. Results: After hemihepatectomy, the plasma levels of IL-6, IL-8, sPLA2 and elastase were similar to the levels after other major abdominal surgery, though the hepatectomized patients showed higher levels of **lactoferrin**, possibly due to impaired hepatic clearance. In addition, the hemihepatectomized patients showed signs of impaired liver function, as was indicated by increased plasma bilirubin and ASAT levels, whereas the other patients did not. Conclusions: The inflammatory response associated with major liver resection is not significantly different from that after other major abdominal surgery, and therefore does not explain the increased complication rate that is seen after major liver resection. We infer that the most important factor in the development of complications after liver resection may be the hepatic failure itself.

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TERM '1?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
2 FILES SEARCHED...
TERM '1?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED

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SEARCH ENDED BY USER

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